

## List of Current Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 9 (Cancelled).

10. (Currently Amended) A method for the automatic manufacture of a glass body for a potentiometric sensor, comprising the steps of:

loading a first spindle of a glass lathe with an outer glass tube and an inner glass tube, so that the outer glass tube and the inner glass tube are arranged coaxially with one another and with an axis of rotation of the first spindle of the glass lathe, each of the inner glass tube and the outer glass tube has a media-side end, and the two media-side ends are positioned in defined axial positions relative to one another;

loading a second spindle with an auxiliary glass tube, so that the axis of rotation of the second spindle is arranged coaxially with the axis of rotation of the first spindle;

bringing the auxiliary glass tube into a contiguous relationship with the outer glass tube;

fusion joining the outer glass tube with the auxiliary glass tube, in order to form a combined, outer tube;

producing a connection between the outer tube, composed of the outer glass tube and the auxiliary glass tube, and the inner glass tube;

after completion of the steps of fusion joining the outer glass tube with the auxiliary glass tube, in order to form a combined glass tube, and of producing a connection between the outer tube, composed of the outer glass tube and the auxiliary glass tube, and the inner glass tube removing a remainder of the auxiliary glass tube from the outer tube;

producing a media-side opening of the inner glass tube; and

forming a media-side edge of the media-side opening.

11. (Currently Amended) The method as claimed in claim 10, further comprising the step of:

automatically blowing a glass membrane on ~~[[the]]~~ said formed, media-side edge of the opening.

12. (Previously presented) The method as claimed in claim 10, wherein: the inner glass tube has a dish-, or disk-, like, radial widening on its media-side end.

13. (Currently Amended) The method as claimed in claim 10, further comprising the step of:

forming a cone ~~is formed~~ at the media-side end of the outer tube, following the producing of a connection between the outer tube and the inner tube, and before the removing of the auxiliary glass remainder from the outer tube.

14. (Previously presented) The method as claimed in claim 10, wherein: said producing of the media-side opening includes a blowing-out of the inner glass tube.

15. (Currently Amended) The method as claimed in claim 10, wherein: said forming of the edge of the media-side opening is effected by means of a tool, which ~~exhibits~~ has a ceramic or carbon-fiber material.

16. (Previously presented) The method as claimed in claim 10, wherein: said forming of the edge of the media-side opening is monitored and controlled by means of a camera and digital image processing.

17. (Previously presented) The method as claimed in claim 10, wherein:  
the outer glass tube has in its media-side, end section at least one ceramic diaphragm, which is at least partially melted into a media-side end face.

Claim 18 (Cancelled).

19. (New) A method for automatic manufacture of a glass body for a potentiometric sensor, comprising the steps of:

loading a first spindle of a glass lathe with an outer glass tube and an inner glass tube, so that the outer glass tube and the inner glass tube are arranged coaxially with one another and with an axis of rotation of the first spindle of the glass lathe, each of the inner glass tube and the outer glass tube has a media-side end, and the two media-side ends are positioned in defined axial positions relative to one another;

loading a second spindle with an auxiliary glass tube, wherein the axis of rotation of the second spindle is arranged coaxially with the axis of rotation of the first spindle;

bringing the auxiliary glass tube into a contiguous relationship with the media-side end of the outer glass tube;

fusion joining the outer glass tube with the auxiliary glass tube at said media-side end of the outer glass tube, in order to form a combined, outer tube;

producing a connection between the outer tube, composed of the outer glass tube and the auxiliary glass tube, and the inner glass tube;

removing a remainder of the auxiliary glass tube from the outer tube;

producing a media-side opening of the inner glass tube; and

forming a media-side edge of the opening.